



CITY OF HOUSTON

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April 1, 2014

Subject: Letter of Clarification No. 2 to Invitation to Bid No. S40- N24835 for Forklifts for the Public Works & Engineering Department

To: All Prospective Bidders:

This letter of Clarification is being issued for the following reasons:

- **To respond to question(s) posed by prospective bidders.**
- **To replace pages 15 – 28 with April 1, 2014 revised pages 15 – 28.**

1.) The following questions and City of Houston responses are hereby incorporated and made a part of the Invitation to Bid:

Question No 1: Forklift Item 1 – Article 2.8 Battery - What size battery and charger does the department want.

Answer: The forklift shall have a 36 volt industrial battery and charger.

Question No. 2 Forklift Item 2 – Article 2.2 Mast - Does the department want a three stage mast with a 189 inch lift height minimum and a collapsed height of 82 inches?

Answer: Yes.

Question No. 3 Forklift Item 2 – Article 2.7 - Does the department want solid or pneumatic tires?

Answer: Pneumatic Tires.

Question No. 4 Forklift Item 2 – Article 2.13.1 – Hydraulic System – Does the department want two way hydraulics with a control handle or three way hydraulics with a side shift attachment?

Answer: Two way hydraulics with a control handle.

Question No. 5 Forklift Item 3 – Article 2.4 Forks – Does the department want 40 inch length forks or 48 inch length forks?

Answer: 48 inch length forks.

Question No. 6 Forklift Item 4 – Article 2.13 Mast – Does the department want a two stage or three stage mast?

Answer: Two stage mast.

**Letter of Clarification No. 2 to Invitation to Bid No. S40- N24835
for Forklifts for the Public Works and Engineering Department**

Question No. 7 Forklift Item 4 – Article 2.14 – What is the maximum lift height of the forks?

Answer: 120 inches.

Question No. 8 Forklift Items 3, 4, 5, & 6 – Does the department want solid or pneumatic tires?

Answer: Pneumatic Tires.

Question No. 9 Forklift Items 3, 4, 5, & 6 – Does the department want four way hydraulics, side-shift function and hydraulic fork positioning?

Answer: Yes.

Question No. 10 Forklift Item 5 – Article 2.1 – Does the department want a 6 to 10 ton forklift or an 11 ton forklift?

Answer: 11 ton forklift

Question No. 11 Forklift Item 5 – Article 2.5 – Would the department clarify the engine requirement?

Answer: Perkins 1106D engine or equivalent.

Question No. 12 Forklift Item 6 – Article 2.5 – Does the department want 60 inch long forks?

Answer: No. 48 inch forks.

Question No. 13 Forklift Item 6 – Article 2.6 – Does the department want a two stage or three stage mast?

Answer: Three stage mast.

When issued, Letter(s) of Clarification shall automatically become a part of the solicitation documents and shall supersede any previous specification(s) and/or provision(s) in conflict with the Letter(s) of Clarification. All revisions, responses, and answers incorporated into the Letter(s) of Clarification are collaboratively from both the Strategic Purchasing Division and the applicable City Department(s). It is the responsibility of the bidder/respondent to ensure that it has obtained all such letter(s). By submitting a bid on this project, bidders/respondents shall be deemed to have received all Letter(s) of Clarification and to have incorporated them into this solicitation and resulting bid.

Furthermore, it is the responsibility of each Contractor to obtain any previous Letter of Clarification associated with this solicitation.


Jeff Meekins
Procurement Specialist
832-393-8743

SECTION B - PART II TECHNICAL SPECIFICATIONS (CONTINUED):

2.7 TIRES/WHEELS:

- 2.7.1 Drive Tire: 12" X 5.5" Rubber
- 2.7.2 Dual Articulating Polyurethane Caster Wheels
- 2.7.3 Wheel box type: Weld-On Box (for use with 5" X 3.9" load wheels)
- 2.7.4 Outrigger Style: Blunt Toe Cap
- 2.7.5 Outrigger (I.D.): 34" I.D. Outrigger Bars
- 2.7.6 Load Wheels: 5" X 3.9" Articulating Tandem High Load Compound with Sealed Bearings.

2.8 BATTERY:

- 2.8.1 Type Lead Acid, 36 Volt Industrial and charger.
- 2.8.2 Battery Compartment: 12.5" Small (39.0" x 12.5" x 31.5")
- 2.8.3 Battery Spacer Group: 38" TO 39"

2.9 OPERATOR COMFORT & SAFETY:

- 2.9.1 Operator Type: Rider Standup Narrow
- 2.9.2 Overhead guard
- 2.9.3 Stability - According to ANSI B56.1
- 2.9.4 UL APPROVAL: Type "EE" Rated Construction with UL Label.
 - 2.9.5 Application / Environmental Construction: Standard. Operating Temperature Range +32 F to +120 F
- 2.9.6 Lights: Dual Headlights 12 Volt - Mast Mounted.
- 2.9.7 Operator Controls: Side stance to include multi-function control handle with simultaneous hydraulic functions, adjustable telescoping armrest, and padded operators compartment.

3.0 TRAINING:

- 3.1 Successful bidder shall provide two separate 2 – hour sessions of instruction to City personnel on the use, operation, maintenance, and safety aspects of the unit as no additional cost to the City.

4.0. LITERATURE:

- 4.1 One (1) complete set of parts, service, and operator's instruction manuals (Operator's Manual UL Classification E) shall be delivered with the machine. Literature Package: Decals, Markings and Operator Manual Required for Units Shipped to the US Destinations.

SECTION B - PART II TECHNICAL SPECIFICATIONS (CONTINUED):

5.0 SAFETY

- 5.1 All equipment supplied must meet all current applicable City, State of Texas, and Federal safety regulations including OSHA requirements. Equipment must have all pertinent guards, lockouts, shutdowns, safety decals etc. for safe operation. All components must be rated for maximum pressure and must meet all applicable safety requirements. If special safety instructions are required for operator's safety, the instructions must be provided with each unit at time of delivery. All parts which form part of the equipment must conform in design, strength and quality of material and workmanship to the highest standards of engineering practice.

6.0 ASSEMBLY:

- 6.1 Unit shall be delivered completely assembled, properly lubricated, and ready for use.

7.0 WARRANTY:

- 7.1 A Minimum one (1) year warranty on parts, frame and workmanship shall be provided. The warranty period shall commence the date the City officially accepts the complete item(s). Any warranty work shall be completed without cost to the City within ten (10) days after notification of a service problem. When extended warranties are available as standard, they must be included as a part of the bid. All documents necessary that affect all warranties must be properly applied for and submitted by the successful bidder. All applicable freight charges to and from the vendor's repair facility for warranty repair and/or maintenance must be borne by the seller during the warranty period.

8.0 DELIVERY:

- 8.1 The items specified above, with delivery ticket and/or other required documents shall be delivered PREPAID F.O.B. Destination, to the location shown on the purchase order within ninety (90) calendar days after receipt of City of Houston Purchase Order.

SECTION - B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 2: FORKLIFT, 5,000-LB. CAPACITY, LIQUID PETROLEUM GAS (LPG) OPERATED PNEUMATIC
PR 10174603

1.0 GENERAL:

1.1 Equipment Description:

1.1.1 These specifications are intended to describe a 5,000 lb. minimum capacity forklift, Liquid Petroleum Gas powered for the Public Works and Engineering Department. The forklift will be used in a PWE warehouse to load and unload materials to support the City of Houston's field operations

1.2 Product Reference: Clark Model CMP25 or City approved equal.

2.0 SPECIFICATIONS:

2.1 GENERAL MACHINE CAPACITIES:

2.1.1 5,000-lbs at 24 in. load center – Fork Face Load

2.1.2 Drive Unit - Type LPG

2.1.3 Overall Dimension – Length to Fork Face 101.6 in

2.1.4 Width - 47.6 in

2.1.5 Height, Upright Lowered- 88.4 in

2.1.6 Height, Upright Extended w/load back rest- 178 in

2.1.7 Height, Overhead Guard - 84 in

2.1.8 Turning Radius - 94.1 in

2.1.9 Load Center Distance – Center of drive axle to fork face 17.7 in

2.1.10 Right Angle Stack Aisle – Add load length and clearance 111.8 in

2.2 MAST:

2.2.1 Upright – Three Stage Mast (Collapsed Height 82 inches)

2.2.2 Lift height 189 in

2.2.3 Free lift - 4.1 in

2.2.4 Upright Tilt – Back/Forward - 10/8

2.2.5 Fork – Std. Fork Size (TxWxL) 1.8 x 4 x 42

2.3 ENGINE:

2.3.1 LPG with an electric ignition

2.3.2 Manufacturer/Model Mitsubishi 4G64

- 2.3.2 Appropriate Cooling System
- 2.3.3 Rated Output- 47.5 HP/35.4 KW at 2250 rpm
- 2.3.4 Torque - 120lb- 163ft/ at 1600 rpm
- 2.3.5 Speed: Max governed rpm - 2600
- 2.3.6 Cylinder/Displacement 4cu. 143 in. 2.4 - Liters
- 2.4 TRANSMISSION:
 - 2.4.1 Manufacturer Type, Speeds: F/R Clark/Power Shift, 1/1
- 2.5 STEERING:
 - 2.5.1 Hydrostatic
- 2.6 BRAKES:
 - 2.6.1 Service brakes: Hydraulic drum and shoe
 - 2.6.2 Parking brakes: Actuation hand
- 2.7 TIRES:
 - 2.7.1 Tires number/Front/Rear 2 / 2
 - 2.7.2 Size front in 7.00 x 12 – 14 ply rating (Pneumatic Tires)
 - 2.7.3 Size rear in 6.50 x 10 – 10 ply rating (Pneumatic Tires)
- 2.8 Wheel base - 63.8 inches
- 2.9 Track – Front/Rear - 39.6/36.9 inches
- 2.10 Ground Clearance – Minimum at Center of Wheelbase 4.7/6.9 inches
- 2.11 WEIGHT:
 - 2.11.1 Service weight: 8,254-lbs
 - 2.11.2 Axle loading –With Load, Front: 11,802-lbs
 - 2.11.3 Axle loading With Load, Rear: 1,452-lbs
 - 2.11.4 Axle loading Without Load, Front: 3534-lbs
 - 2.11.5 Axle loading Without Load, Rear: 4,720-lbs
- 2.12 OPERATOR COMFORT & SAFETY:
 - 2.12.1 Operator Type -Rider Counterbalanced
 - 2.12.2 Overhead guard.
 - 2.12.3 Stability - According to ANSI B56.1
 - 2.12.4 Speeds – Travel speed, max w/load -12.6 mph

SECTION B – PART II TECHNICAL SPECIFICATIONS (CONTINUED)

- 2.12.5 Travel speeds, Max w/o Load - 12.6.mph
- 2.12.6 Speed on Grade, Loaded – 5% 10.5 mph
- 2.12.7 Speed on Grade, Loaded - 10% 5.0 mph
- 2.12.8 Speed on Grade, Loaded - 15% 3.0 mph
- 2.12.9 Lift Speeds, Loaded/Empty STD Upright 98/110 fpm
- 2.12.10 Triple Stage Upright-100/100 FPM
- 2.12.11 Drawbar Pull, Maximum – With Load 3,251-lbs
- 2.12.12 Without load 2,121-lbs
- 2.12.13 Grade ability – At 1 mph with load
- 2.12.14 Maximum with/without load 24.3 / 20.3

2.13 HYDRAULIC SYSTEM:

- 2.13.1 Two-way hydraulics with control handle.
- 2.13.2 Hydraulic Pressure - For attachments PSI/bar Adjustable

2.14 INSTRUMENTATION:

- 2.14.1 Fuel gauge
- 2.14.2 Coolant temperature gauge
- 2.14.3 Hour gauge
- 2.14.4 Oil pressure gauge
- 2.14.5 Charging system gauge
- 2.14.6 Transmission oil temperature gauge
- 2.14.7 Malfunction Indicator lights

3.0 TRAINING:

- 3.1 Successful bidder shall provide two separate 2 – hour sessions of instruction to City personnel on the use, operation, maintenance, and safety aspects of the unit at no additional cost to the City.

4.0. LITERATURE:

- 4.1 One (1) complete set of parts, service, and operator's instruction manuals shall be delivered with the machine.

SECTION B – PART II TECHNICAL SPECIFICATIONS (CONTINUED)

5.0 SAFETY

- 5.1 All equipment supplied must meet all current applicable City, State of Texas, and Federal safety regulations including OSHA requirements. Equipment must have all pertinent guards, lockouts, shutdowns, safety decals etc. for safe operation. All components must be rated for maximum pressure and must meet all applicable safety requirements. If special safety instructions are required for operator's safety, the instructions must be provided with each unit at time of delivery. All parts which form part of the equipment must conform in design, strength and quality of material and workmanship to the highest standards of engineering practice.

6.0 ASSEMBLY

- 6.1 Unit shall be delivered completely assembled, properly lubricated, and ready for use.

7.0 WARRANTY:

- 7.1 A Minimum one (1) year warranty on both parts and workmanship shall be provided. The warranty period shall commence the date the City officially accepts the complete item(s). Any warranty work shall be completed without cost to the City within ten (10) days after notification of a service problem. When extended warranties are available as standard, they must be included as a part of the bid. All documents necessary that affect all warranties must be properly applied for and submitted by the successful bidder. All applicable freight charges to and from the vendor's repair facility for warranty repair and/or maintenance must be borne by the seller during the warranty period.

8.0 DELIVERY:

- 8.1 The items specified above, with delivery ticket and/or other required documents shall be delivered PREPAID F.O.B. Destination, to the location shown on the purchase order within ninety (90) calendar days after receipt of City of Houston Purchase Order.

SECTION B - PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 3: FORKLIFT, 5,000-LB. CAPACITY, LIQUID PETROLEUM GAS (LPG)
PR 10173576

1.0 GENERAL:

- 1.1 These specifications are intended to describe a 5,000 lb. minimum capacity forklift, Liquid Petroleum Gas (LPG) powered for the Public Works and Engineering Department. The forklifts will be used for moving material and equipment and polymer pallets around the plant, for help in changing blower filters, and other tasks at elevations up to 16 feet.

2.0 SPECIFICATIONS:

- 2.1. Power Type - LPG engine, with electric ignition.
- 2.2. Stationary LPG Tank Bracket
- 2.3. Load Capacity 5000 pounds.
- 2.4. Fork Size-- 48" long x 4-5" wide x 1.4 -1.8" thick
- 2.5. Three stage full free view mast.
- 2.6. Maximum fork height - 16 ft.
- 2.7. Overall Lowest height - 7 feet
- 2.8. Tilt Limitation: 6 degrees forward and 5 degrees backward.
- 2.9. Side Shift - 30-35" Four way hydraulics, side-shift function and hydraulic fork positioning
- 2.10 Caution Light – Amber
- 2.11 Back up Alarm
- 2.12. Overhead guard with high air intake
- 2.13. Single speed power shift transmission
- 2.14. Fully hydrostatic power steering
- 2.15. Horn
- 2.16. Headlights
- 2.17. Rear LED Stop. Tail, Turn Signals, Backup lights
- 2.18. Parking brake
- 2.19 Hour meter
- 2.20. Operator Restraint system with retractable lap belt
- 2.21. Right angle stack-90 degrees
- 2.22. Warning light for low battery charge
- 2.23 Pneumatic Tires

SECTION B - PART II TECHNICAL SPECIFICATIONS (CONTINUED):

3.0 LITERATURE:

- 3.1 Illustrative and Technical Data: Seller shall submit with bid the complete current illustrative and technical data on the proposed vehicle(s). Failure to render such data may be considered sufficient reason to declare the bid non-responsive.
- 3.2 Manuals and Technical Information: The successful bidder shall provide, at no cost to the City, the following technical information for each vehicle ordered.
- 3.3 Maintenance and operation manuals covering the vehicles and all special equipment, parts and supplies purchased.
- 3.4 Service manuals covering all vehicles purchased.
- 3.5 Parts list giving service part numbers complete in every detail.
- 3.6 Replacement Parts: Replacement parts availability shall be a critical consideration in the evaluation of this bid. The bidder shall maintain a stock of replacement parts for each bid item, and shall be in a position to replace such part or parts as may be required for a period consistent with the life of the vehicle(s). The type and location of the supplier's parts service facility shall be stated in the bid package.
- 3.7 Provide the City with a copy of the completed vehicle weight certificate.

4.0 WARRANTY

- 4.1 The supplier shall provide warranty, including parts and labor for 2-years or 3000 hours, whichever comes first. The warranty work shall be conducted within 3 working days after receipt of written notice from the City. all shipping charges for warranty work that is required outside of the Houston area will be borne by the supplier.

5.0 DELIVERY:

- 5.1 The forklifts will be delivered at the City of Houston's Wastewater Plants, as noted below:
 - 5.1.1 Chocolate Bayou (FAC # 039) - 9600 Martin Luther King Blvd, Houston (Key Map 574-J)
 - 5.1.2 Greenridge (FAG # 240) - 6301 West Fuqua, Houston (Key Map 571-X)
 - 5.1.3 Northwest (FAC # 145) - 5423 Mangum Street, Houston (Key Map 451-C)
- Final delivery instructions for Chocolate Bayou and Greenridge should be coordinated with Mr. LeAndrea Scott (Mobile: 713-516-0783). Final delivery instructions for Northwest should be coordinated with Mr. Tomas Martinez (Mobile: 713-870-9578).

6.0 TRAINING:

- 6.1 Appropriate Operations and Maintenance Training shall be provided by the successful bidder. All training will be conducted at the Delivery Sites.

SECTION B - PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 4 FORKLIFT, 12,000-LB. CAPACITY

RQ 10173576 - 20

1.0 GENERAL

- 1.1 The specifications herein state the minimum requirements of the *City of Houston* for a 12,000 lb. forklift.

2.0 SPECIFICATIONS

- | | |
|---------------------------------|---|
| 2.1 Lifting capacity | 12,000 lbs. |
| 2.2 Horsepower | 98 @ 2400 rpm |
| 2.3 Height | 85 – 108 inches |
| 2.4 Length to face of forks | 112.7 inches |
| 2.5 Width | 52 inches |
| 2.6 Weight | Empty 17,383 lbs. |
| 2.7 Wheelbase | 70.5 inches |
| 2.8 Ground clearance | Lowest point 4.6 in.
Empty @ center of wheelbase 6.1 in. |
| 2.9 Turning radius | Minimum outside 99.8 in. |
| 2.10 Operator type | Seated rider |
| 2.11 Load center | 24 inches |
| 2.12 Forks | Length 48 in. / Width 6 in. / Thickness 2.5 in. |
| 2.13 Mast | Hi-Vis Two-Stage |
| 2.14 Maximum lift height | 120 in. |
| 2.15 Right angle stack | 118 in. |
| 2.16 Tire front | 22 X 12 X 16 inches (Pneumatic Tires) |
| 2.17 Tire rear | 18 X 8 X 12 inches (Pneumatic Tires) |
| 2.18 Front tire capacity | Empty 6,773 lbs. / Rated load 25,957 lbs. |
| 2.19 Rear axle load | Empty 3,426 lbs. / Rated load 10,611 lbs. |
| 2.10 Travel speed | Empty 10 mph / Rated load 10.7 mph |
| 2.21 Wheels front | Two (2) Driven |
| 2.22 Wheels rear | Two (2) Cushion |
| 2.23 Lift speed | Empty 106.3 – 112.2 fpm
Rated load 102.4 – 110.2 fpm |
| 2.24 Hydraulics | Four way hydraulics, side-shift function & hydraulic fork
Positioning. |

SECTION B - PART-II TECHNICAL SPECIFICATIONS (CONTINUED):

2.0 SPECIFICATIONS (Continued):

- 2.25 Lower speed Empty 63 – 82.7 fpm
 Rated load 92.5 – 100.4 fpm
- 2.26 Fuel type LPG

3.0 EQUIPMENT

- 3.1 ENGINE: GM 4.3 16 Cylinder or City approved equivalent. Engine shall be fan cooled. The Drive Control shall be Intellix VSM City approved equivalent.
- 3.2 TRANSMISSION shall be Techtronix 100 or City approved equivalent.
- 3.3 BRAKES Method of control shall be foot-service / hand-parking.
 Method of operation shall be: Hydraulic-Service / Mechanical-Parking
- 3.4 BATTERY – 12 V
- 3.5 BRAKING, CONTROL, TIRES: Tires shall be pneumatic, dual drive 8.25 X 15. Brakes shall be actuated drum and shoe type with mechanical level type parking brake. Tilt steering column with adjustable seat. The lights shall include turn signals, dual head lights, backup lights, and brake lights. An optional back-up alarm shall be included. Control handles shall be dash mounted and operator compartment accessible from either side. Full hydrostatic power steering.

4.0 DELIVERY

- 4.1 Entire assembled unit shall be delivered at COH's radio shop, 5711 Neches Street, Houston, TX 77026, with sufficient capabilities of delivery vehicle to suitably offload the assembled unit.
- 4.2 The assembled unit shall be packaged/contained to prevent any damage to the unit during travel and off-loading.
- 4.3 The delivery company must coordinate with the appropriate City of Houston Staff to insure the unit is off-loaded safely in the appropriate place and manner desired by the City of Houston.

5.0 WARRANTY

- 5.1 The manufacturer shall furnish the following to the owner:
- 5.2 Shall provide a two (2) year or 4000 hour warranty coverage for engine, transmission, drive axles and torque converter.

6.0 TRAINING

- 6.1 Successful bidder shall provide two separate two (2) hour sessions of instruction to City personnel on the use, operation, maintenance, and safety aspects of the unit as part of the package.
- 6.2 Training shall cover the minimum use and proper safe operation of a forklift.
- 6.3 Training shall include proper forklift equipment maintenance and safety inspection.

7.0 LITERATURE:

- 7.1 One (1) complete set of parts, service, and operator's instruction manuals shall be delivered with the machine.

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED)

ITEM 5 FORKLIFT 11 TON RQ10173576 – 30

1.0 GENERAL SPECIFICATIONS

1.1 The specifications herein state the minimum requirements of the *City of Houston* for an 11 ton forklift.

2.0 EQUIPMENT SPECIFICATIONS

2.1 Taillift I.C. 11 ton Fork Lift Truck or equivalent.

2.2 Master lock system

2.3 Electronic accelerator pedal

2.4 Tilttable steering column

2.5 Perkins 1106D-Engine

2.6 Okamura Transmission

2.7 Diesel fuel powered

2.8 Lifting capacity 22000 lbs

2.9 Deluxe Suspension seat

2.10 Mini Level, wide visual head guard

2.11 Joy stick

2.12 Horse power 164, with 117kWm @ 2200rpm

2.13 Perkins 1106D-Engine six cylinder or equivalent

2.14 23000psi

2.15 Hydraulics – Four Way Hydraulics, side-shift function and hydraulic fork positioning

2.16 Standard one year bumper to bumper warranty

2.17 Height over-head guard – 109.4 inches

2.18 Length to face of forks – 167.1 inches

2.19 Width – 89.8 inches

2.20 Weight rear axle – Empty 14,480 lbs.

2.21 Wheelbase – 110.2 inches

2.22 Ground Clearance – Lowest point 9.8 inches. Empty @ center of wheelbase 12.8 inches

2.23 Turning radius – Minimum outside 157.9 inch

2.24 Operator seat type – Deluxe full suspension seat vinyl

2.25 Load center – 24 inches

2.26 Forks – Length 48 inch/width 6.7 inch/ thickness 3.0 inch

2.27 Mast height, lowered – 113.8 inches

2.28 Mast height, extended – 173.2 inches

2.29 Right angle stack – 184.8 inches

SECTION B - PART-II TECHNICAL SPECIFICATIONS (CONTINUED):

- 2.30 Tire, front – 9.00-20-14PR (1) (Pneumatic Tires)
- 2.31 Tire, rear – 9.00-2—14PR (1) (Pneumatic Tires)
- 2.32 Front tire capacity – Empty 13,730 lbs./ Rated load 45,990 lbs.
- 2.33 Rear axle load – Empty 14,880 lbs./ Rated load 4,670 lbs.
- 2.34 Travel Speed – Empty 5.6/12.4/19.9 mph
- 2.35 Wheels front – Two (4)
- 2.36 Wheels rear – Two (2)
- 2.37 Lift Speed – Loaded/unloaded (93/98)
- 2.38 Lower Speed – Loaded/unloaded (78.7/98.4)
- 2.39 Literature provided at delivery unless requested earlier.

3.0 DELIVERY

- 3.1 Entire assembled unit shall be delivered at COH's 69th Street Wastewater Treatment Plant, 2525 S/SGT Macario Garcia, Houston, Texas 77020, with sufficient capabilities of delivery vehicle to suitably off-load the assembled unit.
- 3.2 The assembled unit shall be packaged/secured so as to prevent any damage to the unit during travel and off-loading.
- 3.3 The delivery company must coordinate with the appropriate City of Houston Staff to insure the unit is offloaded safely in the appropriate place and manner desired by the City of Houston.

4.0 WARRANTY

- 4.1 The manufacturer shall furnish the following to the owner:
- 4.2 Shall provide a two (2) year or 4000 hour warranty coverage for engine, transmission, drive axles and torque converter.

5.0 TRAINING

- 5.1 Successful bidder shall provide two separate two (2) hour sessions of instruction to City personnel on the use, operation, maintenance, and safety aspects of the unit as part of the package.
- 5.2 Training shall cover the minimum use and proper safe operation of a forklift.
- 5.3 Training shall include proper forklift equipment maintenance and safety inspection.

6.0. LITERATURE:

- 6.1 One (1) complete set of parts, service, and operator's instruction manuals shall be delivered with the machine.

ITEM NO. 6 FORKLIFT HEAVY DUTY DIESEL
RQ10173576 - 40

1.0 GENERAL

- 1.1 This following specification is for procurement of two (2) forklifts for use at City of Houston's Upper Brays and Intercontinental Airport Wastewater Treatment Plants. These forklifts will be used for moving heavy material and equipment and polymer pallets around the plant, and other tasks.

2.0 SPECIFICATIONS

- 2.1 Power Type – Diesel Engine, with electric ignition.
- 2.2 Number of Cylinders—4
- 2.3 Cooling System—Radiator
- 2.4 Load Capacity 6000 pounds.
- 2.5 Fork Size—48" long x 5" wide x 1.1.75-2" thick
- 2.6 Three stage full free view mast.
- 2.7 Maximum fork height – Approximately 14 feet.
- 2.8 Overall Low height –Approximately 9 feet
- 2.9 Tilt Limitation: Approximately 38 degrees forward and 9 degrees backward.
- 2.10 Mast Side Shift—Yes, standard provided (Please specify)
- 2.11 Caution Light-Amber
- 2.12 Back up Alarm
- 2.13 Overhead guard with high air intake
- 2.14 Four speed transmission (Forward-reverse)
- 2.15 Fully hydrostatic Power steering
- 2.16 Horn
- 2.17 Headlights – 2
- 2.18 Rear Work light—1
- 2.19 Fuel Level Gauge
- 2.20 Engine Oil Pressure Gauge
- 2.21 Oil Temperature Gauge
- 2.22 Engine Water Temperature Gauge
- 2.23 Air Cleaner Restriction Gauge
- 2.24 Rear LED Stop. Tail, Turn Signals, Backup lights

SECTION B – PART II TECHNICAL SPECIFICATIONS (CONTINUED):

- 2.25 Hydraulic Disc Brake
- 2.26 Parking Brake
- 2.27 Hour meter
- 2.28 Operator Restraint system with retractable lap belt
- 2.29 Alternator Charge Gauge
- 2.30 Pneumatic Tires
- 2.31 Hydraulics – Four way hydraulics, side-shift function and hydraulic fork positioning

3.0 LITERATURE

- 3.1 Illustrative and Technical Data: Seller shall submit with bid the complete current illustrative and technical data on the proposed vehicle(s). Failure to render such data may be considered sufficient reason to declare the bid non-responsive.
- 3.2 Manuals and Technical Information: The successful bidder shall provide, at no cost to the City, the following technical information for each vehicle ordered.
 - 3.2.1 Maintenance and operation manuals covering the vehicles and all special equipment, parts and supplies purchased.
 - 3.2.2 Service manuals covering all vehicles purchased.
 - 3.2.3 Parts list giving service part numbers complete in every detail.
- 3.3 Replacement Parts: Replacement parts availability shall be a critical consideration in the evaluation of this bid. The bidder shall maintain a stock of replacement parts for each bid item, and shall be in a position to replace such part or parts as may be required for a period consistent with the life of the vehicle(s). The type and location of the supplier's parts service facility shall be stated in the bid package.
- 3.4 Provide the City with a copy of the completed vehicle weight certificate.

4.0 DELIVERY:

- 4.1 The forklifts will be delivered at the City of Houston's Wastewater Plants, as noted below:
 - 4.1.1 Upper Brays (FAC #286) - 13525 West Houston Center, Houston (Key Map 529-A)
 - 4.1.2 Intercontinental Airport (FAC #238) – 2450 Rankin Road, Houston (Key Map 373-H)
- 4.2 Final delivery instructions for Upper Brays should be coordinated with Mr. LeAndrea Scott (Mobile: 713-516-0783). Final delivery instructions for Intercontinental Airport should be coordinated with Mr. Tomas Martinez (Mobile: 713-870-9578).

5.0 TRAINING:

- 5.1 Appropriate Operations and Maintenance Training shall be provided by the successful bidder. All training will be conducted at the Delivery Sites.

6.0 WARRANTY:

- 6.1 The manufacturer shall furnish the following to the owner:
- 6.2 Shall provide a two (2) year or 4000 hour warranty coverage for engine, transmission, drive axles and torque converter.
- 6.3 Warranty: The supplier shall provide warranty, including parts and labor for 1-year or 2000 hours, whichever comes first. The warranty work shall be conducted within 3 working days after receipt of written notice from the City. All shipping charges for warranty work that is required outside of the Houston area will be borne by the supplier.